

Title (en)

MECHANISM FOR MOUNTING LED MODULES

Title (de)

MECHANISMUS ZUR MONTAGE VON LED-MODULEN

Title (fr)

MÉCANISME PERMETTANT DE MONTER DES MODULES LED

Publication

EP 3059725 B1 20200506 (EN)

Application

EP 15804055 A 20150702

Priority

- CN 201410817774 A 20141224
- CN 2015083167 W 20150702

Abstract (en)

[origin: EP3059725A1] The present application discloses an LED module mounting mechanism which comprises a fixing frame (2), at least one gap adjusting mechanism mounted on the fixing frame (2), and at least two moving blocks (3) movably connected with the fixing frame (2). The LED modules (100) are arranged on the moving blocks (3). Two ends of the gap adjusting mechanism are connected with the moving blocks (3) respectively. A gap between the LED modules (100) arranged on the moving blocks (3) is adjusted by moving the moving blocks (3) on the two ends toward or away from each other. The present application belongs to the technical field of LED modules and LED display screens. The LED module mounting mechanism solves the technical problems in the prior art that the method for adjusting the planar gap between the LED modules is complex and unstable, and adjusting the planeness which is perpendicular to the planar direction of the LED modules can't be achieve. The LED module mounting mechanism is particularly applicable to adjusting the planeness perpendicular to the direction of the LED modules and the planar gap between the LED modules, the adjusting operation is simple, and the adjusting effect is stable.

IPC 8 full level

B23P 19/04 (2006.01); **G09F 9/302** (2006.01); **G09F 9/33** (2006.01); **H05K 5/02** (2006.01)

CPC (source: CN EP RU US)

B23P 19/00 (2013.01 - CN); **B23P 19/10** (2013.01 - CN); **B41J 2/45** (2013.01 - RU); **F21V 17/02** (2013.01 - US); **G09F 9/3026** (2013.01 - EP US); **G09F 9/33** (2013.01 - EP US); **H05K 5/02** (2013.01 - US); **B23P 19/04** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - US)

Cited by

CN111163598A; EP3113161A4; WO2019034786A1; US11443663B2; US11763704B2; US11922833B2; WO2020161258A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3059725 A1 20160824; **EP 3059725 A4 20170125**; **EP 3059725 B1 20200506**; CN 104723074 A 20150624; CN 104723074 B 20170718; JP 2017506368 A 20170302; JP 6214793 B2 20171018; RU 2016106091 A 20170828; RU 2658285 C2 20180619; US 2016369980 A1 20161222; US 9903567 B2 20180227; WO 2016101584 A1 20160630

DOCDB simple family (application)

EP 15804055 A 20150702; CN 201410817774 A 20141224; CN 2015083167 W 20150702; JP 2016565548 A 20150702; RU 2016106091 A 20150702; US 201514900888 A 20150702